### SENATE AGRICULTURE EXHIBIT NO. 3 DATE 2 10-2009 BILL NO. 5B 343

#### Written Testimony in Favor of Senate Bill 343, 2009

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I am here to speak in favor of Senate Bill 343. As a board member for the Flathead Lakers organization I represent 1500-2000 persons interested in the welfare of Flathead Lake. On as personal note I grew up in Dayton on the lake and have considered it my "true" home for nearly 60 years.

I have a BA degree in chemistry from the University of Montana, and I earned a doctorate in chemistry from Washington State University in 1968. The bulk of my professional career was spent directing the work of the environmental health laboratory for the Michigan Department of Public Health and acting as scientific consultant for our Environmental Health Division. As a part of this work I came to know the zebra mussel very well and I think it presents the greatest current threat to Montana waters. I also believe that a program to prevent the spread of the zebra mussel will be effective against many other invasive species.

Based on my observations in Michigan, zebra mussels are a potential invasive species that has a well demonstrated ability to:

Destroy lake or river bottom ecologies
Damage the normal food chain
Promote aquatic weed growth
Change the nature and populations of fisheries
Damage industries and utilities using surface water.
Damage boating and recreational equipment
Degrade recreational quality and discourage tourism
Add large maintenance costs to many phases of the economy

Each of these aspects alone could be considered *serious problem*. Taken together on a statewide basis, they represent *disastrous consequences*.

About the time I was feeling very glad that Montana was a long way from Michigan, we began to see the uncontrolled spread of zebra mussels to Michigan's inland lakes (SEE LIST, *Inland lakes Infested with Zebra Mussels by County*). The listed lakes are upstream of the Great Lakes and should not be affected by normal spread of mussels. Relative to a single contamination incident in the Great Lakes in 1986 the first inland lake infestation wasn't discovered until 1991. Five years later zebra mussels had been

found in 42 inland lakes, and by 2001 166 lakes were contaminated. Circumstance strongly suggests that nearly all of these lakes were contaminated by human transport of mussels to the lakes.

Finally, I bring to you attention the current national map for zebra mussel distribution data (SEE MAP, provided by USGS). The map data points shows the expected movement around the Great Lakes shorelines given shipping and other boat movement. Zebra mussels have also been transported to some Minnesota lakes and to the headwaters of the Mississippi. This has assured eventual downstream movement throughout the Mississippi river basin. The Flathead Lakers have noted that if our lake is colonized, it would lead to eventual infestation of the entire Columbia River basin. From the Mississippi, zebra mussels have begun to be transported back up the Missouri toward Montana. In addition, the green map data points represent a similar type of mussel, the quagga. This is new to the southwest and poses problems similar to the zebra mussel. The map shows that zebra mussels have moved about half the way from Michigan to Montana, and are now about a day's drive away from the Montana border.

In general, I would hope that legislators recognize two things:

The first is just how serious and imminent this problem has become and how difficult it would be to control within the state. Adequate concern must be encouraged within the pertinent departments and resources needed to respond to this threat must be provided to them.

Secondly, if zebra mussels do come to our state, it is almost certain it will be because ignorant, careless, or totally self-centered individuals have transported them. If this bill does nothing else, it must stop that transport of zebra mussels or other species to our waters.

Senate Bill 343 certainly raises awareness and appears to provide departments with the authorizations and procedures needed to address the potential for zebra mussel contamination and other invasive species. My organization and I fully support this bill.

My only strong concern is with Section 11, part (2). Inspection for aquatic invasive species, including the zebra mussel, requires access to any parts of a watercraft that may actually contain contaminated water being transported from other states. That may include the bilge, bait wells, or engine coolant water systems. It is not clear that this access would be allowed under the current wording.

In closing my statement, I want to thank the committee for the chance to speak on behalf of this bill and for your efforts in addressing this issue. The Flathead Lakers will do whatever we can to support its passage and to ultimately implement its provisions.

#### Inland Lakes Infested with Zebra Mussels by County

(Year Discovered in Parentheses)

	(Yea
Alcona County	Charlevoix County
Alcona Pond (00)	Walloon Lake (93)
Allegan County	Cheboygan C'nty
Lake Allegan(97)	Burt Lake (93)
Alpena County	Mullet Lake (98)
Four Mile L. (98)	Clare County
Long Lake (99)	Long Lake (99)
Seven Mile (98)	Windover L. (99)
Antrim County	Dickinson County
* Birch Lake (01)	* Antoine Lake(01)
Clam Lake (00)	Eaton County
Six Mile Lake (99)	Mud Lake (99)
Barry County	Emmett County
Gun Lake (98)	Crooked Lake (93)
Payne Lake (00)	Paradise Lake (93)
Benzie County	Pickerel Lake (93)
Bass Lake (00)	Genesee County
Crystal Lake (98)	Fenton Lake (97)
Loon Lake (00)	Holloway Res. (95)
Otter Lake (00)	Mott Lake (98)
Platte Lake (00)	Lake Ponemah (00)
Up.Herring (96)	Silver Lake (00)
Berrien County	Gladwin County
L. Paw Paw (93)	Second Lake (98)
Branch County	Smallwood L. (98)
Coldwater L (98)	Wixom Lake (97)
Craig Lake (00)	Grand Traverse Co.
* L. o' t' Woods	Arbutus Lake (00)
(01)	Duck Lake (00)
Marble Lake (98)	Fife Lake (00)
Matteson L. (00)	Green Lake (00)
Messenger L. (00)	Silver Lake (00)
Morrison L. (00)	Hillsdale County
North Lake (00)	Baw Beese L. (97)
Randall Lake (00)	Ingham County
South Lake (00)	Lake Lansing (95)
Union Lake (99)	Ionia County
Calhoun County	Morrison Lake (99)
Duck Lake (98)	Iosco County
Cass County	Cooke (98)
Baldwin "	Foote Pond (98)
Lake(98)	* Long Lake (01)
Birch Lake (00)	Iron County
Christiann L. (92)	* Fortune Pond (01)
Diamond L (95)	Jackson County
Donnell Lake(95)	Ackerson Lake(99)
Eagle Lake (91)	Big Portage L. (98)
* Finch Lake (01)	Clark Lake (94)
Indian Lake (98)	Columbia L. (97)
Juno Lake (92)	Pleasant L. (95)
* Long Lake (01)	Vineyard Lake (92)
Magician L. (97)	Wampler Lake (94)
Twin L. N. (98)	TOMPINI LONG (74)

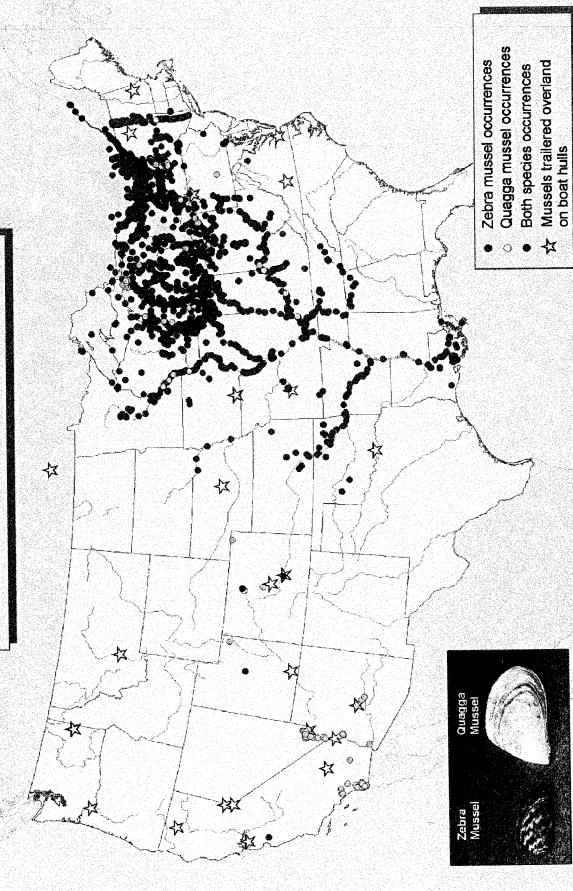
Twin L. S. (98)

r Discovered in Parentheses)			
Kalamazoo County	Oakland County	Oceana County	
Guil Lake (94)	Big Lake (99)	McLaren L. (99)	
Kent County	Brendl e L. (00)	Silver Lake (98)	
Blue Lake (99)	Cass Lak e (93)	Roscommon County	
Dean Lake (98)	Cedar (Strgy) (98)	* Higgins Lake (01)	
Lincoln Lake (99)	Cedar Island (99)	L. St. Helen (94)	
Lapeer County	Clear (Strgy) (98)	Houghton L. (93)	
* Neppesing L. (01)	Commerce L.(98)	St. Joseph County	
Leelanau County	* Crescent L. (01)	Klinger Lake (96)	
L. Leelanau (97)	Crystal Lake (00)	Van Buren County	
Lenawee County	Duck Lake (98)	Banksons (98)	
Devils Lake (94)	Elizabeth L. (94)	Cedar Lake (98)	
Evans Lake (98)	* Greens (01)	Gravel Lake(97)	
Sand Lake (96)	Kent Lake (94)	L. o't Woods (96)	
Livingston County	* L. Angelus (01)	Saddle Lake (98)	
Chemung L. (98)	L. Oakland (98)	Washtenaw County	
* E. Crooked L.(01)	Lake Orion (00)	Barton Pond (94)	
* Ore Lake (01)	Lakeville L. (95)	Base Line (95)	
Rush Lake (00)	<b>Long (Strgy) (98)</b>	Portage Lake (94)	
* Sandy Bottom (01)	Loon Lake (93)	Whitmore (94)	
School Lake (01)	Lower Straits (99)	Wayne County	
Strawberry L. (97)	Lower Trout (98)	Belleville L. (93)	
Manistee County	Maceday L. (97)		
Bear Lake (00)	Mid. Straits (99)		
Tippy Dam L.(97)	Orchard L. (94)	* Newly Confirmed	
Mason County	Otter L. (94)	in 2001	
Ford Lake (00)	Oxbow Lake (99)		
Hackert Lake (00)	Pine Lake (97)		
Mecosta County	Pontiac Lake (00)	44 Counties	
Bergess (98)	Schoolhouse (96)	166 Lakes	
Blue Lake (97)	Silver Lake (94)		
Mecosta Lake (97)	Squaw Lake (98)		
Round Lake (97)	Stony Cr. Imp.(95)		
Midland County	Sylvan L. (94)	Source:	
Sanford L. (98)	Tan (Stringy) (98)	Michigan Sea Grant	
Montcalm County	Union Lake (97)	Inland Lakes	
Derby (98)	Upper Straits (97)	Zebra Mussel	
Whitefish L. (98)	Van Norman (98)	Infestation	
Muskegon County	Walled Lake (93)	Monitoring Program,	
* Big Blue L. (01)	Walnut Lake (99)	December 2001	
	Watkins Lake (95)		
	White Lake (97)	www.msu.msue.edu/	
	Wolverine L.(99)	seagrant/zmfiles/lake	
	Woodhull L. (99)	011402.html	

Note: Michigan Sea Grant excludes lakes that have direct connections with or have outlets within one mile of a Great Lake. Thus lakes such as Charlevoix, Hamlin, Manistee, White and others are not listed here nor included in the count of 166 infested "Inland Lakes" although they are known to have zebra mussels.



Zebra and Quagga Mussel Sightings Distribution Dreissena polymorpha and D. rostrifornis bugensis



Map produced by the U.S. Geological Survey, Gainesville, Florida, February 4, 2009.

## FLATHEAD LAKE Newsletter of the Flathead Lakers

Flathead Lake, Montana

Winter, 2009

#### Proposed Bill Would Help Thwart Zebra Mussel Invasion

A new proposal addressing the threat of invasive species will come before the Montana Legislature this year. Sponsored by Senator Verdell Jackson of Kalispell, the bill's purposes include:

- preventing the introduction of new, harmful, invasive species into Montana;
- controlling and preventing the spread of harmful, invasive species within the state; and
- coordinating public and private efforts and expertise to combat invasive species.

This legislation would complement and strengthen current invasive species education and prevention efforts. The Flathead Lakers assign a high priority to preventing the introduction of harmful aquatic invaders, Lakers board member Ted Williams serves on a committee that has worked on the proposed legislation for over a year.

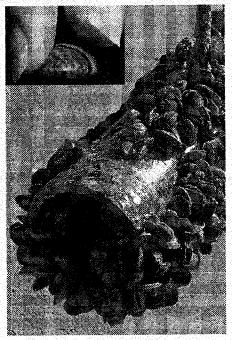
Flathead Lakers board members met with local legislators in early December to discuss the upcoming session. We encouraged them to support an invasive species bill that effectively protects Flathead and Montana waters from harmful invaders like the zebra mussel.

Aquatic invasive species pose a growing threat to Montana's streams, rivers and lakes. Harmful invaders have devastated water bodies in the Great Lakes states and other areas, costing utilities, municipalities and other water users millions of dollars. The U.S. Geological Survey estimates that \$5 billion has been spent in the Great Lakes Basin alone for damages caused by and control efforts for the zebra mussel.

A close relative of the zebra mussel, the quagga mussel, has now established colonies west of the Mississippi River. Discovered in Lake Mead in 2007, quaggas have spread to other reservoirs in the southwest and the Colorado River.

Zebra and quagga mussels displace native species, degrade biodiversity including fisheries, clog water pipes, and coat boat motors and any structures in the water. Preventing the introduction of these species is far more cost effective than trying to control them after they appear.

Aquatic invaders can easily be transported on boats being hauled from one water body to another and can withstand extended periods of time out of the water or in very little water.



Zebra mussels coat a steel pipe. Keeping the mussels and other invasive aquatic species out of Flathead waters is a top priority for the Lakers. *Photo courtesy of MT FWP*.

Commenting on an early draft of the legislation, Ted Williams said "I strongly believe that barriers to the spread of aquatic invasive species should be included in the legislation. We need to block organisms such as zebra mussels from coming into the state." An inspection program for watercraft entering the state is an important tool to accomplish this goal, and the Flathead Lakers encourage legislators to authorize and fund inspection stations now – before it is too late.

— Robin Steinkraus
Our website has links to this bill & associated committees.

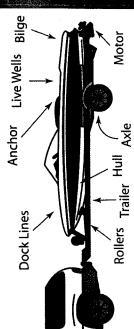
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Visit our web site!	

www.flatheadlakers.org

Before Launching...
Before Leaving...

# Inspect Everything!





# Follow these simple steps:

transportation across state lines.

- Remove any visible mud, plants, fish or other animals before transporting equipment
- · Eliminate all water from your boat and equipment before transporting anywhere
- Clean and dry everything that came in contact with water (including boats, trailers, equipment, clothing, dogs, etc.)
- Never release plants, fish or other animals into a body of water unless they came from that same body of water



www.ProtectYourWaters.net



Zebra and quagga mussels are invasive freshwater mollusks (clams) that infest waters in large numbers, attaching to any hard surface.

Zebra mussels encrusting a boat motor



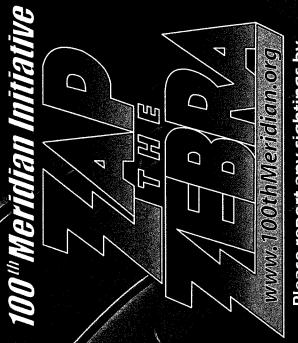
Zebra and quagga mussels are a nuisance for anglers and boaters. They can ruin your equipment, clog cooling systems in motorboats, foul hulls and jam the centerboard wells under sailboats.

In Western States You May also
Report Zebra/Quagga Mussel Sightings to
Bonneville Power Administration's
Crime Witness Hotline
1-800-437-2744



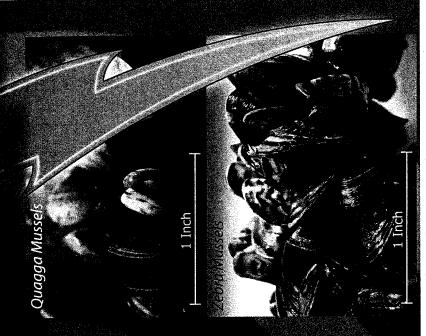
BONNE ADMINISTRATION

i. KREDITS: Zebra mussels encrusting a fishing rod and Zebra mussels on a fishing Luie by Marc.
I. Kansas Department of Wildlife and Parks • Zebra mussels. Zebra mussels on a beer can, Zebra
s on a native mussel. Both bucket: Before and After, Inspect Everything and Zebra flussel Distribution
July 2006 by David Britton, U.S. Fish & Wildlife Service • Zebra mussels in a curency pipe by Don
ses, Great Lakes Science, Center, National Biological Service • Zebra mussels in a Pipe by Criag,
cki, Michigan Sea Grant • Zebra mussels encrusting a boat motor by Steve Krynock • MAP:
ution Map is based on data compiled by the U.S. Geological Survey, available at
autonalAttas.gov • DESIGN\* The design of this biochurier is a modified version of an original
provided by Boat U.S. Clean Maker Trust and ION Media DC.



Please report any sightings by calling our National Hotline:

calling our National Hotline: 1-877-STOP-ANS



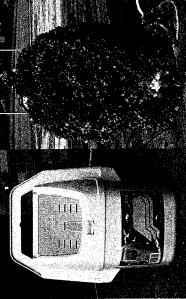
#### waters they clog power-plant and public-water and very expensive! This leads to increased utility intakes and pipes. Routine treatment is necessary bills. If you use water and electricity, then you do Invasive Mussels: Expensive Damage! When zebra or quagga mussels invade our local not want zebra/quagga mussels!





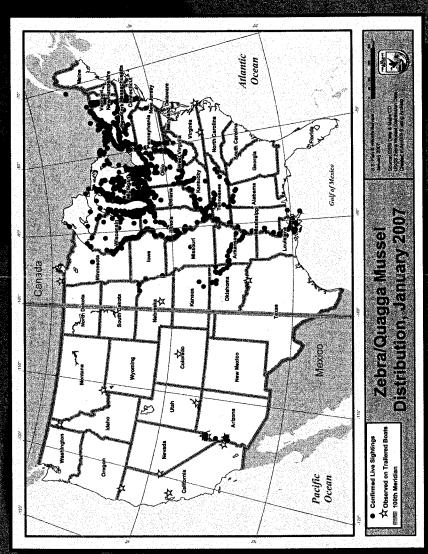
## Zebra/Quagga Mussels May Use Your **Boat to Invade Additional Waters**

eggs each season. Please take the precautions outlined in this brochure to help reduce the and aquatic plants carried by boats. They also commonly attach to bait buckets and other tentionally transport microscopic larvae in water If your boat has been in infested waters, it could be carrying invasive mussels. The primary way that these mussels can spread to new habitats is on boats trailered by the public or by commercial haulers. Zebra and quagga mussels attach to boats aquatic recreational equipment. You could uninheld in your live well, bilge, or bait bucket. An adult female zebra mussel can release up to 1,000,000 chance that zebra or quagga mussels will spread to uninfested areas.



Rofard Johrac Muscale Affor Johra Muscale

sive prevention partnership called the 100th Meridian Initiative has been developed to include To prevent the spread of aquatic nuisance species such as zebra and quagga mussels, a comprehenstate and federal agencies as well as private industries and user groups. Contact your state's natural resources agency, wildlife department, and/or watercraft registration office about the 100th Meridian Initiative and local efforts to prevent the spread of aquatic nuisance species by boats.



Zebra/Quagga Mussels Harm Native Aquatic Life



Zebra/Quagga Mussels Encrust Any Hard Surface



Zebra and quagga mussels are the only freshwater bivalves in North America that encrust hard surfaces.

Freshwater Zebra/Quagga Mussels!

They are invasive species from the Black and Caspian Sea Drainages in Eurasia.

They may be microscopic or up to two inches long.

They commonly have alternating light and dark stripes, hence the common name "zebra" mussels. They usually attach in clusters and have razor-sharp shells that can cut your hands and feet.